EXHIBIT X

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IN THE UNITED STATES DISTRICT COURT OF THE SOUTHERN DISTRICT OF WEST VIRGINIA CHARLESTON DIVISION

IN RE: ETHICON, INC., PELVIC)	
REPAIR SYSTEM PRODUCTS)	Master File No.
LIABILITY LITIGATION)	2:12-MD-02327
)	MDL 2327
THIS DOCUMENT RELATES TO THE)	JOSEPH R. GOODWIN
FOLLOWING CASES IN WAVE 1 OF)	U.S. DISTRICT JUDGE
MDL 200:	
DEE MCBRAYER, ET AL.,	Civil Action No.
Plaintiffs)	2:12-cv-00779
vs.	
ETHICON, INC., ET AL.	
Defendants.)	
This is the Deposition of VLADI	MIR IAKOVLEV, M.D.,
taken at the Hilton Hotel, 145	Richmond Street
West, Toronto, Ontario, Canada,	on Sunday, the
13th day of March, 2016.	

REPORTED BY: JUDITH M. CAPUTO, RPR, CSR, CRR

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        Ana Ruebel
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                                                                                                                   APPEARANCES:
        v. Ethicon, Inc., et al. )
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                                                                                                                        FOR THE PLAINTIFFS AND THE WITNESS:
         v. Ethicon, Inc., et al.
        Civil Action No. 2:12-cv-1004 )
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                                                                                                                        ANDERSON LAW OFFICE, LLC
        Joan Adams
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                                                                                                                        BY: CHRISTOPHER J. ZIMMERMAN, ESQ.
       v. Ethicon, Inc., et al. )
Civil Action No. 2:12-ev-01203)
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                                                                                                                        1360 West 9th Street, Suite 215
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                                                                                                                        Cleveland, OH 44113
        Sharon Boggs, et al.
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Civil Action No. 2:12-cv-00368 )
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                                                                                                                        Email: Ben@andersonlawoffices.net
        Dina Destefano-Raston, et al. )
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        Civil Action No. 2;12-cv-01299)
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                                                                                                                        BUTLER SNOW, LLP
        Civil Action No. 2:12-cv-00829 )
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                                                                                                                        BY: M. ANDREW SNOWDEN, ESQ.
        Donna Hankins, et al.
13
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Civil Action No. 2:12-cv-01011)
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                                                                                                                        150 3rd Avenue South, Suite 1600
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                                                                                                                        Nashville, TN 37201
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                                                                                                                        Tel. 615.651.6700
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        Civil Action No. 2:12-cv-00493)
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                                                                                                                        Email: andy.snowden@butlersnow.com
       Krystal Teasley )
v. Ethicon, Inc., et al. )
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                                                                                                                        Also present:
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                                                                                                                        Amanda Robinson, Esquire
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1	INDEX	1 2	Upon commencing at 8:45 a.m.
2	WITNESS: VI ADIMID IAKOVI EV MD	3	EXHIBIT NO. 1: Clinico-Pathological
4	WITNESS: VLADIMIR IAKOVLEV, M.D. PAGE	4	Report of Dr. Vladimir Iakovlev Re: Dee
5	EXAMINATION BY MR. SNOWDEN8	5	McBrayer dated January 2, 2016.
6	EAAMINATION BT WIK. SNOWDEN	6	EXHIBIT NO. 2: Flash Drive containing
7		7	files reviewed by Dr. Iakovlev in
8		8	compiling the Clinico-Pathological
9		9	report Re: Dee McBrayer.
10		10	report Re. Dec Mediayer.
11		11	VLADIMIR IAKOVLEV, M.D.,
12		12	called as a witness herein, having been first duly
13	INDEX OF EXHIBITS	13	affirmed, testified on his oath as follows:
14	INDEX OF EXHIBITS	14	DIRECT EXAMINATION BY MR. SNOWDEN:
15	NUMBER/DESCRIPTION PAGE NO.	15	Q. Good morning, Dr. Iakovlev.
16	NO. 1: Clinico-Pathological Report of 8	16	A. Good morning.
17	Dr. Vladimir Iakovlev Re: Dee McBrayer dated	17	Q. We are here today to discuss
18	January 2, 2016.	18	Ms. Dee McBrayer; is that your understanding?
19	NO. 2: Flash Drive containing files 8	19	A. Yes.
20	reviewed by Dr. Iakovlev in compiling the	20	Q. I've marked Exhibit 1, your expert
21	Clinico-Pathological Report Re: Dee McBrayer.	21	report. If you take a look at that and let me know
22	NO. 3: Carolinas Laboratory Network Surgical 40	22	if that's your complete case-specific expert report
23	Pathology report with date of service of	23	in this case?
24	April 3, 2009.	24	A. (Witness reviews document). Yes,
24	April 5, 2009.	24	A. (witness reviews document). Tes,
	Page 7		Page 9
1	INDEX OF EXHIBITS	1	it is.
2	(CONTINUED)	2	Q. Okay. And I've marked as
3	NUMBER/DESCRIPTION PAGE NO.	3	Exhibit 2 the flash drive that you provided to me,
4	NO. 4: Women's Institute Office Note, dated 56	4	and it looks like the flash drive has a chain of
5	March 31, 2008.	5	custody form for a pathology specimen you received
6	NO. 5: Women's Institute Office Note, dated 59	6	as well as medical records; does that sound right?
7	December 22, 2008.	7	A. As for all the cases.
8		8	Q. The materials on this flash drive,
9		9	these are all the case-specific medical records and
10		10	materials you reviewed in this matter?
11		11	A. Yes.
12		12	Q. Will you be offering any opinions
13		13	in this case regarding Ms. McBrayer's urinary
14		14	symptoms.
15		15	A. (Witness reviews document). No.
16		16	Q. Will you be offering an opinion in
17		17	this case regarding loose particles in the tissue?
18		18	A. (Witness reviews document). No.
		19	Q. And let's get this out of the way
19			at the beginning. For your degradation bark
19 20		20	at the beginning. I of your degradation bark
20		20 21	
20 21			opinions found on pages 17 through 21, are the
20 21 22		21	opinions found on pages 17 through 21, are the opinions you'll give regarding degradation bark the
20 21		21 22	opinions found on pages 17 through 21, are the

3 (Pages 6 to 9)

Page 10 Page 12 1 A. Yes. 1 description of erosion, clinical description of 2 Q. And in terms of the figures found 2 erosion. So it's mentioned in the 3 3 clinicopathological correlation. on pages 17 through 21, your testimony in 4 4 Ms. McBrayer's case will be consistent with your Q. And where is that in your 5 prior -- strike that. 5 clinicopathological correlation? б 6 Will you be offering any testimony at A. Okay. We start from the 7 7 trial on any aspect of the design of the product? beginning. 8 8 A. No, except for the effect on the Q. I'll just tell you, I can see it 9 9 on page 7 of the carry-over paragraph, the last tissue which I see. But I will not be offering 10 10 alternative design opinions. portion of that, it says: 11 Q. Will you be offering an opinion in 11 "At that time there was also a 12 this case that the mesh caused an erosion in 12 mesh erosion detected. The erosion 13 13 expanded and examinations revealed Ms. McBrayer? 14 A. (Witness reviews document). 14 tenderness over the lateral margins 15 of the vagina and a firm scar 15 All right. So if we go through the records, entry April 2009, it describes mesh 16 associated with the mesh." 16 17 erosion and during the excision there is mesh 17 A. That's correct. That's this 18 portion. Let me just read further down. 18 erosion. 19 19 (Witness reviews document). I had only H&E slides and it was -- the 20 Q. Yes, let me know if there's 20 slides were prepared at the original institution. 21 anything else in your clinicopathological 21 The site of erosion wasn't sampled in those 22 correlation about erosion? 22 sections, but I will offer opinion based on the 23 A. (Witness reviews document). It 23 description, records, and the knowledge and 24 doesn't state where the erosion. However, some 24 experience of pathology of erosion sites of other Page 11 Page 13 1 parts of it reflect changes attributable to 1 specimens. 2 Q. Okay. So you're going to --2 erosion, such as inflammation, which is added on 3 A. Or what is described in the 3 the foreign body type inflammation around the 4 general opinions. 4 erosion site. 5 5 Q. Okay. For Ms. McBrayer's case, Q. In this case, are you going to 6 you don't have a section in your report where you 6 offer an opinion regarding whether Ms. McBrayer 7 describe your opinion regarding erosion in this 7 suffered an infection due to mesh? 8 8 case; is that correct? A. Again, since I had only slides, I 9 9 A. That's correct, because the cannot show it in this specimen. But I will -- I 10 erosion site wasn't sampled in the sections because 10 can offer this opinion based on the general report. 11 I didn't have the tissue. I had only H&E slides. 11 Q. Okay. So if I understand you 12 12 Q. Okay. And so in this case you correctly, you will offer a general opinion 13 don't know what the erosion site looked like? 13 regarding infection, but in terms of whether 14 A. Not based on this specimen. But 14 infection occurred in Ms. McBrayer, you will not be 15 the findings are repetitive, and they are 15 offering an opinion? 16 described in the general report. Clinically it 16 A. No. I will offer an opinion based 17 was clearly described as erosion. 17 on clinical records describing erosion and my 18 18 Q. And in this case are you going to descriptions of the changes associated with erosion be offering an opinion on whether the mesh caused 19 19 described in the general report. 20 the erosion? 20 I will not show pictures, A. Yes. 21 21 microphotographs showing localized infection in 22 22 Q. Okay. And that's not found in the specimen of Ms. McBrayer. 23 23 your report either, is it? Q. Okay. And in Ms. McBrayer's case, 24 A. I just found in my report the 24 do any of her clinicians note an infection of the

	Page 14		Page 16
1	mesh?	1	technique. I'm not urogynecologist.
2	A. Stating that it's erosion implies	2	Q. Will you offer an opinion in this
3	that there is infection. I don't remember if it	3	case regarding mesh migration?
4	was specifically mentioned as infection, but	4	A. As for all meshes, meshes migrate
5	erosion is always associated with localized	5	or fibers within the mesh migrate. I cannot offer
6	infection.	6	opinion regarding the degree of mesh migration.
7	Q. Okay. And my question was really	7	But they all move.
8	not whether they imply anything, but whether with	8	MR. ZIMMERMAN: Excuse me, can we take
9	their words they mention an infection?	9	a moment break.
10	A. I don't remember now if word	10	OFF THE RECORD DISCUSSION
11	"infection" was mentioned. Because it's	11	Amanda Robinson joined the
12	unavoidable, it always comes with erosion.	12	conference.
13	Q. In this case you said you received	13	BY MR. SNOWDEN:
14	three H&E slides; is that right?	14	Q. Dr. Iakovlev, in your review of
15	A. That is correct.	15	the three slides you received from Carolinas
16	Q. Did you receive any other specimen	16	Medical Center, do you have any reason to believe
17	for Ms. McBrayer?	17	those were processed in any manner other than
18	A. No.	18	standard tissue processing techniques?
19	Q. And so the three slides you have	19	A. Well, the histology was
20	are from the April 3rd, 2009 surgery at Carolinas	20	acceptable. The quality of slides was acceptable.
21	HealthCare System; is that right?	21	I did not see any indication that the protocols or
22	A. Yes, it's April 2009.	22	the standard way of processing was not followed.
23	Q. Your case-specific opinion here is	23	Q. I'm going to ask you some
24	based on your review of those three slides under	24	questions about your figure DM4 on page 13 of your
	Dago 1E		Dago 17
1	Page 15	1	Page 17
1	the light and polarized microscope, your review of	1	report.
2	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else?	2	report. A. Yes.
2	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and	2 3	report. A. Yes. Q. Did you consult a neuropathologist
2 3 4	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general	2 3 4	report. A. Yes. Q. Did you consult a neuropathologist in this case?
2 3 4 5	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report.	2 3 4 5	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not
2 3 4 5 6	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report. Q. Do you recall in this case whether	2 3 4 5 6	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not consult neither felt the need to consult a
2 3 4 5 6 7	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report. Q. Do you recall in this case whether you prepared a synoptic report?	2 3 4 5 6 7	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not consult neither felt the need to consult a neuropathologist on any of the cases. And the
2 3 4 5 6 7 8	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report. Q. Do you recall in this case whether you prepared a synoptic report? A. Again, if you received it, I did.	2 3 4 5 6 7 8	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not consult neither felt the need to consult a neuropathologist on any of the cases. And the reason was given several times during these
2 3 4 5 6 7 8	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report. Q. Do you recall in this case whether you prepared a synoptic report? A. Again, if you received it, I did. Q. And you provided all of those that	2 3 4 5 6 7 8	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not consult neither felt the need to consult a neuropathologist on any of the cases. And the reason was given several times during these depositions. Neuropathologists examine brain
2 3 4 5 6 7 8 9	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report. Q. Do you recall in this case whether you prepared a synoptic report? A. Again, if you received it, I did. Q. And you provided all of those that you've completed to counsel?	2 3 4 5 6 7 8 9	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not consult neither felt the need to consult a neuropathologist on any of the cases. And the reason was given several times during these depositions. Neuropathologists examine brain lesions, spinal lesions, some thick peripheral
2 3 4 5 6 7 8 9 10	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report. Q. Do you recall in this case whether you prepared a synoptic report? A. Again, if you received it, I did. Q. And you provided all of those that you've completed to counsel? A. Yes.	2 3 4 5 6 7 8 9 10	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not consult neither felt the need to consult a neuropathologist on any of the cases. And the reason was given several times during these depositions. Neuropathologists examine brain lesions, spinal lesions, some thick peripheral nerves, neuropathies, but they do not examine
2 3 4 5 6 7 8 9 10 11 12	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report. Q. Do you recall in this case whether you prepared a synoptic report? A. Again, if you received it, I did. Q. And you provided all of those that you've completed to counsel? A. Yes. Q. Are you going to offer any	2 3 4 5 6 7 8 9 10 11 12	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not consult neither felt the need to consult a neuropathologist on any of the cases. And the reason was given several times during these depositions. Neuropathologists examine brain lesions, spinal lesions, some thick peripheral nerves, neuropathies, but they do not examine vaginal tissue, soft tissue and they do not examine
2 3 4 5 6 7 8 9 10 11 12 13	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report. Q. Do you recall in this case whether you prepared a synoptic report? A. Again, if you received it, I did. Q. And you provided all of those that you've completed to counsel? A. Yes. Q. Are you going to offer any opinions in this case regarding the placement of	2 3 4 5 6 7 8 9 10 11 12 13	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not consult neither felt the need to consult a neuropathologist on any of the cases. And the reason was given several times during these depositions. Neuropathologists examine brain lesions, spinal lesions, some thick peripheral nerves, neuropathies, but they do not examine vaginal tissue, soft tissue and they do not examine explanted vaginal meshes. That is the expertise of
2 3 4 5 6 7 8 9 10 11 12 13 14	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report. Q. Do you recall in this case whether you prepared a synoptic report? A. Again, if you received it, I did. Q. And you provided all of those that you've completed to counsel? A. Yes. Q. Are you going to offer any opinions in this case regarding the placement of the mesh?	2 3 4 5 6 7 8 9 10 11 12 13 14	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not consult neither felt the need to consult a neuropathologist on any of the cases. And the reason was given several times during these depositions. Neuropathologists examine brain lesions, spinal lesions, some thick peripheral nerves, neuropathies, but they do not examine vaginal tissue, soft tissue and they do not examine explanted vaginal meshes. That is the expertise of general surgical pathologists.
2 3 4 5 6 7 8 9 10 11 12 13 14	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report. Q. Do you recall in this case whether you prepared a synoptic report? A. Again, if you received it, I did. Q. And you provided all of those that you've completed to counsel? A. Yes. Q. Are you going to offer any opinions in this case regarding the placement of the mesh? A. In terms of the location or the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not consult neither felt the need to consult a neuropathologist on any of the cases. And the reason was given several times during these depositions. Neuropathologists examine brain lesions, spinal lesions, some thick peripheral nerves, neuropathies, but they do not examine vaginal tissue, soft tissue and they do not examine explanted vaginal meshes. That is the expertise of general surgical pathologists. Q. In Ms. McBrayer's case did you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report. Q. Do you recall in this case whether you prepared a synoptic report? A. Again, if you received it, I did. Q. And you provided all of those that you've completed to counsel? A. Yes. Q. Are you going to offer any opinions in this case regarding the placement of the mesh? A. In terms of the location or the correctness of the technique?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not consult neither felt the need to consult a neuropathologist on any of the cases. And the reason was given several times during these depositions. Neuropathologists examine brain lesions, spinal lesions, some thick peripheral nerves, neuropathies, but they do not examine vaginal tissue, soft tissue and they do not examine explanted vaginal meshes. That is the expertise of general surgical pathologists. Q. In Ms. McBrayer's case did you count the nerve density?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report. Q. Do you recall in this case whether you prepared a synoptic report? A. Again, if you received it, I did. Q. And you provided all of those that you've completed to counsel? A. Yes. Q. Are you going to offer any opinions in this case regarding the placement of the mesh? A. In terms of the location or the correctness of the technique? Q. The correctness of the technique	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not consult neither felt the need to consult a neuropathologist on any of the cases. And the reason was given several times during these depositions. Neuropathologists examine brain lesions, spinal lesions, some thick peripheral nerves, neuropathies, but they do not examine vaginal tissue, soft tissue and they do not examine explanted vaginal meshes. That is the expertise of general surgical pathologists. Q. In Ms. McBrayer's case did you count the nerve density? A. If there was a synoptic report, I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the light and polarized microscope, your review of Ms. McBrayer's records. Anything else? A. My knowledge, training and experience, materials referenced in the general report, and the general report. Q. Do you recall in this case whether you prepared a synoptic report? A. Again, if you received it, I did. Q. And you provided all of those that you've completed to counsel? A. Yes. Q. Are you going to offer any opinions in this case regarding the placement of the mesh? A. In terms of the location or the correctness of the technique? Q. The correctness of the technique and where in Ms. McBrayer's case it was actually	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	report. A. Yes. Q. Did you consult a neuropathologist in this case? A. As for all the cases, I did not consult neither felt the need to consult a neuropathologist on any of the cases. And the reason was given several times during these depositions. Neuropathologists examine brain lesions, spinal lesions, some thick peripheral nerves, neuropathies, but they do not examine vaginal tissue, soft tissue and they do not examine explanted vaginal meshes. That is the expertise of general surgical pathologists. Q. In Ms. McBrayer's case did you count the nerve density? A. If there was a synoptic report, I did, but it is not required to produce expert
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Page 18 Page 20 1 A. In DM4 there is nerve fiber --1 So if we look at this image, we can see 2 sorry, there is a mesh fiber or space for mesh 2 that there are parallel structures. They are a 3 little bit wiggly, sort of curving. And then there 3 fiber in the lower part. And then on top of that 4 there is part of the scar plate and there is nerve 4 is a separation, so they can outline. 5 branch in the upper left. 5 Q. And you're drawing in pen that 6 So this nerve branch has an abnormal 6 separation? 7 7 A. Yes. So everything is inside, is location. It's morphologically normal but it has 8 an abnormal location, it is in the scar plate and 8 the longitudinal or partially longitudinal section 9 9 positioned in the scar plate makes it entrapped in of a nerve twig, nerve branch, and everything 10 the scar plate. 10 outside is tissue. 11 11 And another portion is here. It's much Q. How large is it for the nerve 12 12 easier to see in the microscope because resolution branch? 13 13 in the microscope is better. The picture doesn't A. Maybe 50 microns. 14 Q. Did you identify any receptors in 14 reflect fully what it -- how it looks in the 15 Ms. McBrayer's specimen? 15 microscope. A. I did not identify or did not 16 16 That's about all the features. And it 17 attempt to identify receptors in any of the 17 looks like a nerve. We discussed it. I mean. 18 specimens. 18 after several years of training and looking through 19 19 thousands and thousands of slides, pathologists get Q. Are you able to identify axons 20 trained to recognize all these structures. 20 with H&E stain? 21 21 A. You can see them at very high Q. And one of those structures I 22 magnification in H&E stain. They are very thin 2.2 think you just identified, or at least one of the 23 23 features, I think you said that they have parallel structures. 24 Q. And did you undertake that 24 structures and then in this case, did you say -- I Page 19 Page 21 1 analysis to look for axons using very high power? don't know if you said squiggly or wiggly, the 1 2 A. I didn't need to. Nerve branches 2 curved? 3 are nerve branch, it contains Schwann cells, it 3 A. Somewhat curved, wavy. 4 Q. Wavy, that's a better word for it. contains axons. 4 5 5 Q. In DM4, the two arrows you have Is that wavy appearance one of the 6 there pointing to the smaller nerve branches, what 6 factors in identifying the nerve? 7 is it morphologically that tells you that's a 7 A. It depends on the orientation, on 8 nerve? 8 the cut. Sometimes you get a cut completely 9 A. Because it looks like a nerve. 9 transverse and then instead of wavy you have 10 Q. That's what I'm trying to figure 10 tubular structures. 11 out as a nonpathologist. What is it that tells you 11 Q. Okay. 12 a nerve looks like a nerve? 12 A. But when you get more 13 A. Okay. So nerve is a fibrillary 13 longitudinal, you get more wavy. Sometimes it's structure because the axons and Schwann cells, they 14 14 completely straight, so you have parallel rows, not 15 run in parallel, tubular sort of orientation. And 15 rows but parallel orientation of the Schwann cell 16 it becomes somewhat separated from the outside 16 nuclei. These nuclei are Schwann cell nuclei. 17 17 stroma because Schwann cells, they have different Q. So those wavy parts are the 18 type of cytoplasm than the outside collagen. 18 Schwann cell nuclei? 19 And if it's a larger nerve branch or a 19 A. Yes, mainly. There might be some 20 nerve, it has a perineurium, so there's a 20 other nuclei, like from small capillaries, but not 21 separation from the outside. If it gets smaller, 21 in this image, at least I don't think any of those 22 like a nerve twig, it doesn't have perineurium 22 are in this image. 23 anymore, it's more like a fascicle of a nerve 23 Q. Do you attribute any symptoms to 24 branched out and then it goes on its own. 24 the figure in DM4?

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A. Well, I mean, as we discussed earlier, we cannot pinpoint one specific picture or one specific morphological feature to a specific symptom. So we have to consider all changes together as a complex and then apply them to the complications or correlate them to the complications. This is a part of the pathological changes associated with the mesh, and this would be related to pain symptoms.

But it's not just that specific picture caused -- or changes in this specific picture caused pain symptoms. It's an overall device with similar changes caused the complication.

- Q. If we turn to figure DM5.
- A. Yes.

- Q. It looks like there's some mesh in the top portion of the picture; is that right?
- A. Yes.
- Q. Was there mesh passed -- we get to the bottom of the picture, we don't see any mesh. Do you know if there's mesh beyond where we're looking in the photo, in the field?
 - A. I don't know. Probably not. But

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- structure is deformed. So the features are not the same anymore. So that's why there is a difficulty in recognizing, so I would rely more on Schwann cell stain like S100 protein.
 - Q. What was it about this structure that led to your opinion that it could be a deformed large nerve?
 - A. It stems out and there is a specific orientation of the nuclei within -- I've seen larger deformed nerve in H&E within the mesh and they look similar. But in all of those cases, I could do S100 protein to confirm it. In this case I couldn't because I had no H&E and I didn't want to destain and do any alteration of -- if it was a hospital case, I would probably use one slide to destain and do a stain over, but because it's a medical-legal case, I didn't alter it.

So I can probably defer final decision of this structure to -- if I receive a block or I receive unstained slide I can do \$100 stain and I can complete assessment of this structure.

Q. Would you expect a nerve, if this were a nerve of this size, would you expect it to have an endoneurium?

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I would need slides to answer this question. Or low power magnification.

- Q. Okay. And it looks like here you have large nerve deformed in the mesh scar plate, H&E, magnification equivalent to ten X objective; do you see that?
 - A. Yes, I do.
- Q. Is there a perineurium on this nerve?
- A. So in this image, this is sort of equivocal finding. If I had a block, I would do S100 stain to confirm. This structure, as I said, is somewhat equivocal. I suspect it can be large deformed nerve, but I couldn't confirm it with S100 stain.
 - Q. All right.
- A. If I had the block, I would confirm it. So my assessment was that likely it is than not, but I cannot be 100 percent sure, for this specific structure.
- Q. And if we look for those wavy Schwann cell nuclei in this deformed nerve, do you see any of those?
 - A. Well, when it's deformed, the

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A. Yes. I mean, it would have perineurium and endoneurium if it is normal nerve. If it becomes really distorted, it can lose all of the structures. And I've seen it happen, I've seen nerves up to two millimeters and they lose all the endoneurium and perineurium when they're deep inside in the mesh. I've seen it happening. As I said, it has similar appearance with multiple capillaries distorting. Because it becomes partially scar tissue at that point.

Again, we're going into new field of mesh pathology, all changes within the mesh, and these type of structures are easier to investigate when you have full access to the material like paraffin block.

- Q. How did you rule out that this wasn't just fibrous tissue?
 - A. I couldn't. I need S100 stain.
- Q. So sitting here today are you able to say to a reasonable degree of medical certainty that this structure is a deformed large nerve?
- A. I would have to say that this is dependent on further investigation, if I have access to material. I cannot complete my

Page 26 Page 28 1 assessment based on what I have. 1 scar plate, it's somewhere in the distribution of 2 Q. So sitting here today, you're not 2 this artery, there was blockage. Scar plate 3 3 able to say to a reasonable degree of medical together with the mesh is quite significant 4 certainty that that is a deformed large nerve; you 4 obstacle for blood vessels to grow. So at one 5 need to do more? 5 point blood flow stopped through this branch. 6 A. Yes. 6 Q. Do you know what this -- what the 7 7 end target of this vessel was? Q. Okay. On DM6, what does this 8 figure show? 8 A. Somewhere in the vagina. 9 9 A. Well, everything we discussed --Q. Okay. And did you see any 10 well, part of that, what we discussed in figure 10 evidence of downstream consequences of this 11 DM4, we have similar mesh fibers, which are in a 11 obliterated vessel? 12 scar plate. The mesh fibers, they have foreign 12 A. I don't think we have tissue which 13 body type inflammatory reaction surrounding the 13 is supplied by this artery in this specimen, 14 mesh fibers, and scar plate with bridging fibrosis 14 because this will be supplying tissue somewhere 15 on the outside. And then in the lower right, 15 beyond this specimen, it's a relatively large 16 16 there is an obliterated artery and the lumen is vessel. 17 completely obliterated. In this case the artery 17 Some branches may be supplying some 18 became damaged within the scar plate. 18 blood within this specimen, but the distribution 19 Q. Are you able to tell from 19 will be larger than just what tissue would have in 20 20 morphology alone when that damage occurred? this specimen. 21 21 A. It happened sometime before the Q. And what would you expect to see 22 excision. Definitely happened after implantation, 2.2 as the downstream consequences of an obliterated 23 so sometime between implantation and excision. 23 vessel? 24 24 The artery is directly in the scar A. Mostly scarring. Because if there Page 27 Page 29 plate, so the cause of this is associated with the 1 is no blood supply, there will be more scarring. 1 2 mesh and the scar plating. 2 Delayed healing. 3 Q. Its position in the scar plate, is 3 Q. Would you expect to see necrosis? 4 that your basis for the opinion that it occurred 4 A. Well, delayed healing is in a way 5 5 after placement of the mesh? necrosis, breakdown -- mucosal erosion can be one 6 A. I don't see any other condition 6 of the consequences. If there is not enough blood 7 which would explain the obliteration. I mean, this 7 supply to the area to support mucosa, it becomes 8 8 fragile. I mean, it's -- any extra damage will be is the most likely or to a reasonable degree of 9 medical certainty explanation for the damage of the 9 more damaging or cannot -- the mucosa will not be 10 artery. It's directly against the mesh. I mean, 10 able to withstand just normal damage. 11 there's no other lesion around it. I don't see any 11 Q. Do you have an opinion as to how 12 12 other cause, which would cause the damage. the pathology depicted in DM6 impacted Ms. 13 Q. Did you consider age and 13 McBrayer? 14 14 A. I will give you the same answer as menopausal status in coming to that opinion? 15 15 A. I considered those factors, as we before. We cannot take one picture, one 16 described. I mean age-related changes, especially 16 morphological finding and single it out to a single 17 for postmenopausal women, would be accelerated 17 complication. It is a complex, so it was playing 18 18 atherosclerosis or calcifications in the media. together with all the changes including scar 19 which is somewhat different from atherosclerotic 19 plating, nerve entrapment, inflammation, migration. 20 calcifications. I don't see any calcifications 20 Q. Let's turn to DM7. What 21 21 here. significance, if any, do you attribute to this 22 22 O. What was the mechanism of the picture? 23 23 injury that led to the obliterated vessel? A. There is a piece of mucosa, so we 24 A. It's hard to say. It's in the 24 know that there was an excision of the mucosa. And

there was description of erosion, surgically. This is consistent; however, this section did not capture the erosion site. But we no. We'll have a look. (document).	Page 32
2 This is consistent; however, this 2 document).	Witness reviews
2 section did not conture the erosion site. But we 2 I think you're go	
section and not capture the crosson site. But we 5 I think you're got	ng to ask me to
4 know that it happened, through the records. 4 estimate the thickness.	
5 Q. Is there anything abnormal in DM7? 5 Q. No, I'm just §	going to ask whether
6 A. There is some chronic 6 you measured it in this c	=
7 inflammation, not very dense but there is some 7 A. No. This wo	ould be hard because
8 chronic inflammation. We may be close to erosion 8 the pictures are all longit	udinal. I would prefer
9 site, but not very close. 9 to estimate it in the cross	s-section.
10 Q. Where is that chronic inflammation 10 Q. Were you ab	le to identify any blue
11 in the picture? 11 granules in the bark in the	is case?
12 A. The lower part. Not the pink part 12 A. The printer n	nakes this blue
13 but the nuclei. 13 blotchy. It's not a good p	orinter but
14 Q. The purple nuclei at the bottom? 14 (Witness reviews	document). While I'm
15 A. Yes. 15 looking for all the descri	ptions, the presence of
16 Q. There is a portion on the 16 the blue granules is not r	equired to detect
17 left-hand side near the bottom that appears to be 17 degradation layer; I just	need H&E stain and
18 different color, a little darker red. Is there any 18 polarizing filters.	
19 significance to that? 19 However, let me	have a look in my
20 A. It's intraoperative damage, 20 report.	
21 hemorrhage. 21 Q. Sure.	
22 Q. Is there anything else abnormal 22 A. No, I did not	see the blue
23 about this picture in DM7? 23 granules readily. Someti	imes it there are just
24 A. No. 24 fragments of bark in ther	re and you have to go
Dago 21	Dog 22
Page 31	Page 33
1 Q. Do you attribute any symptoms to 1 through all bark fragments	and it's really
2 the image depicted in DM7? 2 difficult.	
3 A. No. This is more or less normal 3 Q. Okay.	11 1 7 .
4 part of submucosa. 4 A. They might still	be there, I just
5 Q. And specifically for your 5 couldn't find them.	
6 degradation layer photos that go from DM8 A to DM10 6 Q. All right. And	
7 B, do you attribute any symptoms to the presence of 7 you're on page 9 of your re	-
	-
8 the degradation layer? 8 because that's where I want	D-11
9 A. As before, we cannot single out 9 Under the section "l	
9 A. As before, we cannot single out 9 Under the section "I 10 one feature, one picture, and attribute it to a 10 degradation," in the second	paragraph you have,
9 A. As before, we cannot single out 9 Under the section "I 10 one feature, one picture, and attribute it to a 10 degradation," in the second 11 specific complication. However, if we think about 11 "Cracking, indicated brittle	paragraph you have, ness and internal
9 A. As before, we cannot single out 9 Under the section "I 10 one feature, one picture, and attribute it to a 10 degradation," in the second 11 specific complication. However, if we think about 11 "Cracking, indicated brittle 12 it, the entire interaction or complex of 12 contraction forces." Do you	paragraph you have, ness and internal
9 A. As before, we cannot single out 10 one feature, one picture, and attribute it to a 11 specific complication. However, if we think about 12 it, the entire interaction or complex of 13 interactions between the tissue and the mesh is 19 Under the section "I 10 degradation," in the second 11 "Cracking, indicated brittle 12 contraction forces." Do you 13 A. I do.	paragraph you have, ness and internal u see that?
9 A. As before, we cannot single out 10 one feature, one picture, and attribute it to a 11 specific complication. However, if we think about 12 it, the entire interaction or complex of 13 interactions between the tissue and the mesh is 14 actually through this degraded layer. All the 9 Under the section "I 10 degradation," in the second 11 "Cracking, indicated brittle 12 contraction forces." Do you 13 A. I do. 14 Q. Did you do any	paragraph you have, ness and internal u see that? mechanical testing
9 A. As before, we cannot single out 10 one feature, one picture, and attribute it to a 11 specific complication. However, if we think about 12 it, the entire interaction or complex of 13 interactions between the tissue and the mesh is 14 actually through this degraded layer. All the 15 chemical interactions, foreign body type reaction, 19 Under the section "I degradation," in the second 11 "Cracking, indicated brittle 12 contraction forces." Do you 13 A. I do. 14 Q. Did you do any 15 on the specimen in this case	paragraph you have, ness and internal u see that? mechanical testing
9 A. As before, we cannot single out 10 one feature, one picture, and attribute it to a 11 specific complication. However, if we think about 12 it, the entire interaction or complex of 13 interactions between the tissue and the mesh is 14 actually through this degraded layer. All the 15 chemical interactions, foreign body type reaction, 16 stimulus for scarring, all happening through this 9 Under the section "I 10 degradation," in the second 11 "Cracking, indicated brittle 12 contraction forces." Do you 13 A. I do. 14 Q. Did you do any 15 on the specimen in this case 16 A. As for all other	paragraph you have, ness and internal u see that? mechanical testing e? specimens, I did
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9 A. As before, we cannot single out 10 one feature, one picture, and attribute it to a 11 specific complication. However, if we think about 12 it, the entire interaction or complex of 13 interactions between the tissue and the mesh is 14 actually through this degraded layer. All the 15 chemical interactions, foreign body type reaction, 16 stimulus for scarring, all happening through this 17 degraded layer. So, all features which were 18 observed in a sensation with mesh are influenced by 9 Under the section "I 10 degradation," in the second 11 "Cracking, indicated brittle 12 contraction forces." Do you 13 A. I do. 14 Q. Did you do any 15 on the specimen in this case 16 A. As for all other 17 not do any destructive testin 18 histology and analyzed poly	paragraph you have, ness and internal u see that? mechanical testing e? specimens, I did ng; I only did ymer using histological
9 A. As before, we cannot single out 10 one feature, one picture, and attribute it to a 11 specific complication. However, if we think about 12 it, the entire interaction or complex of 13 interactions between the tissue and the mesh is 14 actually through this degraded layer. All the 15 chemical interactions, foreign body type reaction, 16 stimulus for scarring, all happening through this 17 degraded layer. So, all features which were 18 observed in a sensation with mesh are influenced by 19 this interaction. This includes brittleness, 9 Under the section "I 0 degradation," in the second 11 "Cracking, indicated brittle 12 contraction forces." Do you 12 contraction forces." Do you 13 A. I do. 14 Q. Did you do any 15 on the specimen in this case 16 A. As for all other 17 not do any destructive testin 18 observed in a sensation with mesh are influenced by 19 this interaction. This includes brittleness, 19 methods, which is a good w	paragraph you have, ness and internal u see that? mechanical testing e? specimens, I did ng; I only did ymer using histological vay of doing it because it
9 Under the section "I degradation," in the second 11 specific complication. However, if we think about 11 "Cracking, indicated brittle 12 it, the entire interaction or complex of 12 contraction forces." Do you 13 interactions between the tissue and the mesh is 13 A. I do. 14 actually through this degraded layer. All the 14 Q. Did you do any 15 chemical interactions, foreign body type reaction, 15 on the specimen in this case 16 stimulus for scarring, all happening through this 16 A. As for all other 17 degraded layer. So, all features which were 17 not do any destructive testin 18 observed in a sensation with mesh are influenced by 18 histology and analyzed poly 19 this interaction. This includes brittleness, 19 methods, which is a good w 20 increase in stiffness, includes the degradation 20 gives you an opportunity to	paragraph you have, ness and internal u see that? mechanical testing e? specimens, I did ng; I only did ymer using histological way of doing it because it o do histology and
9 A. As before, we cannot single out 10 one feature, one picture, and attribute it to a 11 specific complication. However, if we think about 11 "Cracking, indicated brittle 12 it, the entire interaction or complex of 13 interactions between the tissue and the mesh is 14 actually through this degraded layer. All the 15 chemical interactions, foreign body type reaction, 16 stimulus for scarring, all happening through this 17 degraded layer. So, all features which were 18 observed in a sensation with mesh are influenced by 19 this interaction. This includes brittleness, 20 increase in stiffness, includes the degradation 21 product. I mean, all this is playing a role. 9 Under the section "I degradation," in the second 10 degradation," in the second 11 "Cracking, indicated brittle 12 contraction forces." Do you 12 contraction forces." Do you 13 A. I do. 14 Q. Did you do any 15 on the specimen in this case 16 A. As for all other 17 not do any destructive testing 18 histology and analyzed poly 19 this interaction. This includes brittleness, 20 gives you an opportunity to 21 analyze the polymer at the second	paragraph you have, ness and internal u see that? mechanical testing e? specimens, I did ng; I only did ymer using histological way of doing it because it o do histology and
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Page 34 Page 36 1 "Extensive cracking can also 1 degradation products were measured in vitro --2 provide cavities to harbor 2 sorry, in vitro environment, and there is an array 3 3 bacteria, as is well-known in of degradation products released during degradation 4 4 of polypropylene, ketones, acids and the larger microporous meshes." 5 5 Do you see that? molecules. 6 6 A. I do. Q. So in this case you didn't test 7 7 for or find any of those degradation products Q. Did you identify any bacteria in 8 8 the bark cracks in Ms. McBrayer's case? released into the tissue for Ms. McBrayer? 9 9 A. I don't aim to find them. It A. No, as I said, these are 10 10 would be really difficult to identify one single or molecules, this is molecular level. 11 11 Q. We jumped in on the pictures. I a few bacteria. 12 12 want to go back and just make sure we do the first As for all other specimens, I do not 13 13 aim to find single bacteria. If it's a colony, I three. 14 can see it, I describe it. Usually colonies are in 14 On DM1 -- I'll wait until you get 15 15 the severely infected erosion sites, you can see there. 16 16 them, but when it's one or two bacteria it's really A. All right. 17 17 Q. DM1 on page 10, what do you see in hard to say whether it is or is not. 18 Q. So is it fair to say in this case 18 this picture? 19 you did not find any? 19 A. So again I will give you a 20 20 A. I did not look for any. summary, but this will not limit my testimony at 21 21 Q. Okay. And in this case you didn't trial. I can expand the summary as outlined in the 22 find any bacteria colonies either? 22 general report. And also I reserve the right to 23 23 answer any questions I am asked; I don't know what A. No. 24 Q. And then the next sentence you 24 I am going to be asked. Page 35 Page 37 1 1 In this image we see mesh fibers have: 2 "Additionally, degradation of a 2 incorporated by scar tissue and whole spaces 3 substance indicates its breakdown 3 between mesh fibers within the mesh are filled by 4 into smaller molecules, and in cases 4 scar tissue. So this process is called bridging 5 5 of implanted materials, the products fibrosis. And when bridging fibrosis becomes 6 6 confluent and merges with the scar encapsulating of degradation are released into the 7 7 the mesh from outside, it forms a solid structure tissue adding to the complex 8 8 pathological interactions between of scar plate. And the scar plate is reinforced by 9 the mesh and the human body." 9 the mesh within it. At the same time the mesh is Do you see that? 10 10 reinforced by the scar tissue, because the fibers 11 A. I do. 11 have limited movement within the scar tissue. 12 Q. Do you know in Ms. McBrayer's case 12 And the structure becomes stiffer than 13 whether any degradation products were released into 13 either scar tissue alone without mesh, or mesh the tissue? 14 without the scar tissue. Also, the scar tissue, as 14 15 A. Well, we have to accept the fact 15 anywhere else in the body, will contract during 16 that degradation is breakdown of a material into 16 maturation. And this contraction is due to 17 17 smaller particles. Like, any material -- any reduction of the extracellular fluid, contraction 18 degrading material will release new molecules. 18 of myofibroblasts and crosslinking of collagen. 19 It's like fire and smoke, you have fast exudation 19 This is a defense -- or adaptation mechanisms in an which is fire and then you produce soot and smoke, 20 20 attempt to reduce the area of damage in the body. 21 new molecules. 21 So scar tissue contracts, pulls the fibers together 22 I did not do specific testing because 22 and the entire device becomes contracted. 23 this would be destructive testing and this is very 23 So in this magnification, which is a 24 difficult to do. But based on studies in vivo, 24 lower power magnification, we can also see a halo

Page 38 Page 40 1 or foreign body type reaction around the mesh 1 usually I see in the clinic is banding and scarring 2 fibers, which is in variable response of the tissue 2 because if it's flat, it's not palpable. Every 3 3 against the mesh fibers. And this inflammation is time there is description of palpable banding or 4 aimed to destroy or degrade the foreign body. At 4 scarring, when the specimen comes out it's always 5 the same time it damages the tissue and contributes 5 folded. Because the three dimensionality, that 6 to scar expansion. 6 gives it its palpable nature because it becomes 7 7 And in this case it will be chronic stiffer and irregular and thicker. That's why it 8 process of tissue damage, scarring tissue damage 8 can become palpated. 9 9 and scarring, because the foreign body cannot Q. At least for Ms. McBrayer's 10 become completely reabsorbed because polypropylene 10 specimen you were able to review, you didn't have 11 does not get reabsorbed. So this would be a 11 enough of a specimen to say her specimen folded? 12 12 A. I did not have enough material to summary. Q. Well, let me ask this question and 13 13 demonstrate it. 14 this is broadly across the entire specimen that you 14 Q. Okay. And so your opinion is 15 reviewed. 15 based on your reading of the records and your 16 Did you find any acute inflammation in 16 general opinion? 17 Ms. McBrayer's specimen? 17 A. That is correct. 18 A. I think we mentioned that, that 18 MR. SNOWDEN: Let's mark Exhibit 3. 19 was the reason why I did not include erosion in a 19 EXHIBIT NO. 3: Carolinas Laboratory 20 separate section, because I did not have a section 20 Network Surgical Pathology report with 21 of erosion -- I did not have a site of erosion in 21 date of service of April 3, 2009. 22 the material which was submitted by the original 2.2 BY MR. SNOWDEN: 23 23 laboratory. Q. Dr. Iakovlev, I've handed you the 24 Q. Okay. So you didn't find any 24 Carolinas Laboratory Network Surgical Pathology Page 39 Page 41 acute inflammation? 1 1 Report with the date of service of April 3, 2009. 2 A. No. 2 Do you see that? 3 3 A. I do. Q. Are you going to offer an opinion 4 in this case that the mesh deformed in the body? 4 Q. Okay. And does that correspond 5 5 A. (Witness reviews document). with the specimen or the slides you received in 6 6 So my specimen or the slides which were this case? 7 prepared at the original laboratory contained only 7 A. Let me check. McBrayer, Dee, 8 8 smaller portions of mesh. I could not assess what 14621. Yes, this is the pathology report 9 deformation was demonstrated in this material. 9 describing the specimen and the slides I received. 10 However, as we saw with multiple Prolift devices, 10 Q. Okay. And under the section 11 all of them deformed and they came out as folded, 11 "Final Pathologic Diagnosis," it reads: 12 and this is described in my general opinions. 12 "Vagina: Foreign body 13 And if we go through the records, there 13 granulomatous inflammatory reaction 14 is repeated description of scarred area and banding 14 to surgical mesh and associated..." 15 in there, and this had consistent association with 15 Can you help me with that last word? 16 folding and multilayering on excision. And we saw 16 A. Cicatrix. Scar, that's another 17 17 it multiple times during these depositions. word for scar tissue. 18 So I can offer my opinion based on the 18 O. So that's another word for scar? 19 clinical descriptions of scarring and banding, and 19 A. Yes, it's scar tissue in reaction 20 my general opinions provided in the general report. 20 to injury. 21 Q. Okay. Did any clinician in this, 21 Q. Okay. And then the gross 22 who treated Ms. McBrayer, say that the mesh was 22 description down at the bottom -- well, let's 23 folded or deformed? 23 just say before that there's 24 A. Well, see, the descriptions 24 "Clinical Information/ Surgical Procedure," pain,

	Page 42		Page 44
1	and it says, "Vaginal excision of vaginal mesh	1	is causing the symptoms.
2	4/2/2009." Do you see that?	2	So as we discussed earlier, the process
3	A. I do.	3	of clinicopathological correlation is taking place
4	Q. And then under the gross	4	with each specimen. The clinicians provide
5	description:	5	information why the excision is done, or biopsy,
6	"Received in formalin and	6	and then pathologist responds to this, describing
7	labeled 'vaginal mesh' consist of a	7	what is abnormal.
8	0.9 by 0.8 by 03 cm aggregate of	8	And here in this case, we have exactly
9	pink to gray soft tissue fragments	9	the same process. And clinical information is:
10	and possible mesh material.	10	Vaginal pain: Excision of vaginal mesh. Specimen
11	Specimen is submitted in entirety."	11	received: Vaginal biopsy, vaginal pain.
12	Do you see that?	12	So this is what the clinician is
13	A. I do.	13	asking, or what information is provided to the
14		14	pathologist, "vaginal pain."
	Q. Does this pathologist mention the		
15	specimen was curled or deformed or folded? A. No.	15	And then the pathologist examines the
16 17		16	specimen and describes what is the abnormality to
	Q. Does this pathologist mention	17	respond to this clinical information.
18	acute inflammation?	18	And what we see here, foreign body
19	A. No.	19	granulomatous inflammation reaction to surgical
20	Q. Does this pathologist mention	20	mesh and associated scar. So the pathologist tells
21	infection?	21	the clinician that the abnormality in the tissue
22	A. No.	22	which is related to the clinical information is
23	Q. Does this pathologist say that the	23	presence of the foreign body and tissue reaction to
24	mesh is degraded?	24	it as foreign body inflammatory reaction and
	Page 43		Page 45
1		1	Page 45 scarring. Scar encapsulation, bridging fibrosis,
1 2	Page 43 A. There is no description either way.	1 2	
	A. There is no description either		scarring. Scar encapsulation, bridging fibrosis, all of this within this umbrella term.
2	A. There is no description either way.	2	scarring. Scar encapsulation, bridging fibrosis, all of this within this umbrella term. Q. Doctor, I'm not sure what question
2	A. There is no description either way.Q. Okay.A. If it is or it is not.	2 3	scarring. Scar encapsulation, bridging fibrosis, all of this within this umbrella term. Q. Doctor, I'm not sure what question you're answering, but my question was, does this
2 3 4	 A. There is no description either way. Q. Okay. A. If it is or it is not. Q. So you would agree with me that 	2 3 4	scarring. Scar encapsulation, bridging fibrosis, all of this within this umbrella term. Q. Doctor, I'm not sure what question you're answering, but my question was, does this pathology report and the final pathologic diagnosis
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2 3 4 5 6 7	A. There is no description either way. Q. Okay. A. If it is or it is not. Q. So you would agree with me that the word "degradation" is not found in this pathology report?	2 3 4 5 6	scarring. Scar encapsulation, bridging fibrosis, all of this within this umbrella term. Q. Doctor, I'm not sure what question you're answering, but my question was, does this pathology report and the final pathologic diagnosis mention dyspareunia? A. And I explain to you that it would
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	Page 46		Page 48
1	Q. Does the word "correlation" appear	1	A. Some, but the specimen was
2	anywhere in this pathology report?	2	limited.
3	A. No.	3	Q. And actually, we just read from
4	Q. Dr. Iakovlev, from my	4	the pathology report that it was the specimen
5	understanding, reading your report, you have a	5	was less than a centimeter by a centimeter by a
6	section on pain and a section on dyspareunia. Is	6	centimeter; is that correct?
7	that right?	7	A. That is correct.
8	A. Yes.	8	Q. So is it your understanding that
9	Q. Okay. I have a question under	9	you did not receive the large body of the Prolift
10	your "Pain" opinion. On page 7 you have at the	10	device or the long arms of the Prolift device in
11	last sentence that carries over on to 8:	11	this case?
12	"Scar tissue matures within a	12	A. Well, I received part of the body.
13	year after injury and then can	13	Q. Okay. In this case what was it
14	remodel or expand, depending on	14	about the Prolift that caused Ms. McBrayer's pain?
15	chronicity of the tissue damage."	15	A. (Witness reviews document).
16	What do you mean by "expand" there?	16	So she is being implanted with Prolift
17	A. Well, if you have chronic tissue	17	device in July 2007. Then there are entries in
18	damage it will provide stimulus for fibrosis.	18	October and December, and by December the symptoms
19	That's how organs get scarred. Like liver	19	are described as discomfort in the lower back
20	sclerosis, if there's chronic damage, chronic	20	associated with changes in bowel movement, also
21	hepatitis C or alcoholism, year after year there	21	some discomfort with ambulation. She reported the
22	will be more scar, more scar, more damage and then	22	pain is global pelvic floor type discomfort and
23	it will expand. Same thing with lung fibrosis or	23	does get worse after significant bowel movements
24	with foreign bodies.	24	and/or other stimulation.
	Page 47		Page 49
_			
1	If there is continuous stimulus and	1	And we go on into 2008, description of
1 2	If there is continuous stimulus and tissue damage, the damaged tissue will be replaced	1 2	And we go on into 2008, description of continued pelvic floor rectal and vaginal
	tissue damage, the damaged tissue will be replaced		continued pelvic floor rectal and vaginal
2	tissue damage, the damaged tissue will be replaced by scar, so there will be expansion of the scar or	2	continued pelvic floor rectal and vaginal discomfort, worse with ambulation and long periods
2	tissue damage, the damaged tissue will be replaced by scar, so there will be expansion of the scar or thickening of the scar plate.	2 3	continued pelvic floor rectal and vaginal discomfort, worse with ambulation and long periods of sitting and standing. Bilateral pain in the
2 3 4	tissue damage, the damaged tissue will be replaced by scar, so there will be expansion of the scar or thickening of the scar plate. Q. And on page 8, the third	2 3 4	continued pelvic floor rectal and vaginal discomfort, worse with ambulation and long periods of sitting and standing. Bilateral pain in the buttock area. So at that time, no constriction
2 3 4 5	tissue damage, the damaged tissue will be replaced by scar, so there will be expansion of the scar or thickening of the scar plate. Q. And on page 8, the third paragraph, you have:	2 3 4 5	continued pelvic floor rectal and vaginal discomfort, worse with ambulation and long periods of sitting and standing. Bilateral pain in the buttock area. So at that time, no constriction bands are palpable.
2 3 4 5 6 7	tissue damage, the damaged tissue will be replaced by scar, so there will be expansion of the scar or thickening of the scar plate. Q. And on page 8, the third paragraph, you have: "The large body and arms of a	2 3 4 5 6 7	continued pelvic floor rectal and vaginal discomfort, worse with ambulation and long periods of sitting and standing. Bilateral pain in the buttock area. So at that time, no constriction bands are palpable. And continuing on, then in August there
2 3 4 5 6 7 8	tissue damage, the damaged tissue will be replaced by scar, so there will be expansion of the scar or thickening of the scar plate. Q. And on page 8, the third paragraph, you have: "The large body and arms of a Prolift device have a large area and	2 3 4 5 6	continued pelvic floor rectal and vaginal discomfort, worse with ambulation and long periods of sitting and standing. Bilateral pain in the buttock area. So at that time, no constriction bands are palpable. And continuing on, then in August there is a description that sometimes she would
2 3 4 5 6 7	tissue damage, the damaged tissue will be replaced by scar, so there will be expansion of the scar or thickening of the scar plate. Q. And on page 8, the third paragraph, you have: "The large body and arms of a Prolift device have a large area and a long course in the body, damaging	2 3 4 5 6 7 8	continued pelvic floor rectal and vaginal discomfort, worse with ambulation and long periods of sitting and standing. Bilateral pain in the buttock area. So at that time, no constriction bands are palpable. And continuing on, then in August there is a description that sometimes she would experience pain after intercourse.
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2 3 4 5 6 7 8 9 10	tissue damage, the damaged tissue will be replaced by scar, so there will be expansion of the scar or thickening of the scar plate. Q. And on page 8, the third paragraph, you have: "The large body and arms of a Prolift device have a large area and a long course in the body, damaging multiple neurovascular structures, crossing striated muscles, providing nonphysiological attachments between	2 3 4 5 6 7 8 9	continued pelvic floor rectal and vaginal discomfort, worse with ambulation and long periods of sitting and standing. Bilateral pain in the buttock area. So at that time, no constriction bands are palpable. And continuing on, then in August there is a description that sometimes she would experience pain after intercourse. And then in December 2008, which is
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	tissue damage, the damaged tissue will be replaced by scar, so there will be expansion of the scar or thickening of the scar plate. Q. And on page 8, the third paragraph, you have: "The large body and arms of a Prolift device have a large area and a long course in the body, damaging multiple neurovascular structures, crossing striated muscles, providing nonphysiological attachments between the tissues and introducing a cause for chronic inflammation." Do you see that? A. I do. Q. Did you see any striated muscle in your specimen in this case? A. No, I couldn't demonstrate it in this. But my opinion is based on multiple excision specimens of Prolift devices.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	continued pelvic floor rectal and vaginal discomfort, worse with ambulation and long periods of sitting and standing. Bilateral pain in the buttock area. So at that time, no constriction bands are palpable. And continuing on, then in August there is a description that sometimes she would experience pain after intercourse. And then in December 2008, which is roughly one year and a half, just less than a year and a half after the implantation, digital examination revealed mild tenderness at the proximal vagina with a palpable scarring secondary to graft. So in that moment, there is a palpable scarring. And tenderness on the palpation. And then in February 2009 there is mesh erosion. And now the examination or findings of the examination are progressively getting worse. "Digital examination reveals tenderness at the 7 and 5 o'clock
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	tissue damage, the damaged tissue will be replaced by scar, so there will be expansion of the scar or thickening of the scar plate. Q. And on page 8, the third paragraph, you have: "The large body and arms of a Prolift device have a large area and a long course in the body, damaging multiple neurovascular structures, crossing striated muscles, providing nonphysiological attachments between the tissues and introducing a cause for chronic inflammation." Do you see that? A. I do. Q. Did you see any striated muscle in your specimen in this case? A. No, I couldn't demonstrate it in this. But my opinion is based on multiple excision	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	continued pelvic floor rectal and vaginal discomfort, worse with ambulation and long periods of sitting and standing. Bilateral pain in the buttock area. So at that time, no constriction bands are palpable. And continuing on, then in August there is a description that sometimes she would experience pain after intercourse. And then in December 2008, which is roughly one year and a half, just less than a year and a half after the implantation, digital examination revealed mild tenderness at the proximal vagina with a palpable scarring secondary to graft. So in that moment, there is a palpable scarring. And tenderness on the palpation. And then in February 2009 there is mesh erosion. And now the examination or findings of the examination are progressively getting worse. "Digital examination reveals

Page 50 Page 52 1 1 most notable for uncomfortable areas When I received the specimen, or when 2 on examination." 2 the original pathologist received the specimen, the 3 3 So at this moment there is unequivocal only findings, or the only pathology there was 4 4 association of the pain with the graft scarring, presence of the mesh as a foreign body and reaction 5 5 palpable scarring. of the body to the mesh. 6 6 Q. I'm sorry, which record were you There's no other pathology, no natural 7 7 just reading from? disease like neoplasia, or another foreign body in 8 8 A. February 26, 2009. there. So the tissue which was associated with the 9 9 Q. Did you say it was getting symptoms clinically showed pathology of the mesh 10 10 progressively worse? only. So this is a first step in the morphological 11 A. Yeah, when I was going through the 11 differential diagnosis, we rule out any other 12 records, there's some vague descriptions and then 12 13 13 And then if we go further into the mesh examination slowly visit after visit it becomes 14 more focused on the graft. 14 specific pathology, as we saw in the pictures, 15 15 Q. Was it significant to your opinion there is bridging fibrosis, scar encapsulation, 16 that the complaints were getting progressively 16 chronic foreign body type inflammatory response, 17 17 innervation of the scar plate. 18 A. This is just a description. I'm 18 We know that scar plates contracts so 19 describing what is in the records. To my opinion 19 there was tensioning and there was -- it was 20 is to determine if the clinical differential 20 described as scarring and banding in the area which 21 diagnosis was completed and if clinicians after 21 was released. 22 performing their clinical differential diagnosis 22 And as I mentioned earlier, all of 23 narrowed down the clinical differential diagnosis 23 these complex changes work together to produce the 24 to the mesh. And I'm just showing how it was done 24 symptoms. And we can further explain how these Page 51 Page 53 in the records. It's not my opinion. I'm just 1 1 symptoms came about. 2 describing what is in the records. 2 Q. All right. Do you, for purposes 3 3 of your opinion regarding pain and dyspareunia in And then April 2009, digital 4 examination reveals tenderness over the lateral 4 this case, do you differentiate between pain from 5 5 margins of the vagina and the firm scar consistent scarring and pain from mesh erosion in Ms. 6 with synthetic polypropylene mesh. 6 McBrayer's case? 7 And then finally in April 2009, there 7 A. You cannot differentiate between 8 8 is excision of a part of the mesh, of Prolift mesh. the two because they all occur at the same time. 9 9 And the indications are, history of previous Both can cause or contribute to the symptoms. The 10 vaginal reconstruction surgery with placement of 10 scarring on its own can produce the symptoms and we 11 vaginal mesh, who now presents with mesh erosion 11 saw it in many other cases, because scar contracts, 12 12 scar distorts tissue, there is entrapment of nerves and vaginal pain. 13 The patient now presents for excision 13 in the scar and all other mechanisms we discussed 14 of exposed mesh and release of scar tissue palpable 14 earlier. 15 15 on examination. And intraoperatively there was an And at the same time, if you have 16 erosion and scarred area, which was released, and a 16 superimposed erosion on all these changes, you have 17 description that mesh was incorporated with 17 extra inflammation in the area and you have 18 18 collagen ingrowth. And the remainder of the mesh additional load of inflammation, additional 19 19 was not removed. granulation tissue, additional sensitization of the 20 So just going through the records, I 20 tissues for pain, due to inflammation. So, the 21 21 saw that clinicians perform clinical differential symptoms will get worse. In addition, that will be 22 22 diagnosis, narrowed down causes of pain and a risk factor for dyspareunia and dyspareunia when 23 23 dyspareunia to the mesh and made a decision to the mesh becomes exposed.

Q. And in Ms. McBrayer's specimen,

24

24

excise the specimen.

	Page 54		Page 56
1	did you see any granulation tissue or increased	1	dyspareunia are associated with the pain. Then I
2	inflammation from the erosion?	2	examine the specimen and I explain what is the
3	A. No, I did not have site of	3	cause for that pain.
4	erosion.	4	EXHIBIT NO. 4: Women's Institute
5	Q. Was it important I heard you	5	Office Note, dated March 31, 2008.
6	mention, I think you used the phrase "progressively	6	BY MR. SNOWDEN:
7	worse" in describing the course of Ms. McBrayer's	7	Q. Dr. Iakovlev, earlier you
8	pain symptomatology.	8	mentioned you read from a portion of the
9	Was it important for your opinion that	9	March 31st, 2008, record, which I'm going to hand
10	it was progressively worse over time?	10	to you now as Exhibit 4. And in your summary in
11	A. No, I was not basing my opinions	11	your report you have description of:
12	on the progressive nature. However, it correlates	12	"Continued pelvic floor, rectal
13	with the pathophysiology of the changes related to	13	and vaginal discomfort, worse with
14	the mesh. Because, as we discussed earlier, scar	14	ambulation and long periods of
15	contraction is a continuous process. Most of it	15	sitting and standing, bilateral pain
16	occurs within first month after implantation.	16	in the buttock area. Digital
17	However, with chronic damage and continuous scar	17	examination revealed tenderness, on
18	remodeling, it will continuously become more dense	18	the levator ani. Also, rectal exam
19	and there will be more expansion of the scar	19	revealed significant elevation in
20	tissue, more contraction. So slowly there will be	20	the rectal and levator ani tone with
21	more tension and more distortion introduced in the	21	bilateral trigger points from the
22	area.	22	puborectalis to the vaginal apex.
23	Q. Would it matter to your opinion if	23	No masses or abnormalities noted,
24	while the morphological features that you just	24	and no constriction bands from the
	Page 55		
			Page 57
1	described of more contraction and all that was	1	graft were palpable."
2	described of more contraction and all that was occurring, that Ms. McBrayer's pain was actually	2	graft were palpable." Do you see that?
2	described of more contraction and all that was occurring, that Ms. McBrayer's pain was actually not changing at all?	2 3	graft were palpable." Do you see that? A. I do.
2 3 4	described of more contraction and all that was occurring, that Ms. McBrayer's pain was actually not changing at all? A. It can have different patterns,	2 3 4	graft were palpable." Do you see that? A. I do. Q. If you take a look at the record
2 3 4 5	described of more contraction and all that was occurring, that Ms. McBrayer's pain was actually not changing at all? A. It can have different patterns, but the progressive nature can be explained	2 3 4 5	graft were palpable." Do you see that? A. I do. Q. If you take a look at the record that I've just handed you in Exhibit 4 from
2 3 4 5 6	described of more contraction and all that was occurring, that Ms. McBrayer's pain was actually not changing at all? A. It can have different patterns, but the progressive nature can be explained morphologically. But it will not change my	2 3 4 5 6	graft were palpable." Do you see that? A. I do. Q. If you take a look at the record that I've just handed you in Exhibit 4 from March 31, 2008, which is where you pulled your
2 3 4 5	described of more contraction and all that was occurring, that Ms. McBrayer's pain was actually not changing at all? A. It can have different patterns, but the progressive nature can be explained morphologically. But it will not change my opinions if it's progressive or if it's	2 3 4 5	graft were palpable." Do you see that? A. I do. Q. If you take a look at the record that I've just handed you in Exhibit 4 from March 31, 2008, which is where you pulled your summary from to put in your report, correct?
2 3 4 5 6 7 8	described of more contraction and all that was occurring, that Ms. McBrayer's pain was actually not changing at all? A. It can have different patterns, but the progressive nature can be explained morphologically. But it will not change my opinions if it's progressive or if it's intermittent. There are multiple ways how it can	2 3 4 5 6 7 8	graft were palpable." Do you see that? A. I do. Q. If you take a look at the record that I've just handed you in Exhibit 4 from March 31, 2008, which is where you pulled your summary from to put in your report, correct? A. So this is March
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2 3 4 5 6 7 8	described of more contraction and all that was occurring, that Ms. McBrayer's pain was actually not changing at all? A. It can have different patterns, but the progressive nature can be explained morphologically. But it will not change my opinions if it's progressive or if it's intermittent. There are multiple ways how it can present. And the presentation would be more expertise of urogynecologist. I can explain how	2 3 4 5 6 7 8	graft were palpable." Do you see that? A. I do. Q. If you take a look at the record that I've just handed you in Exhibit 4 from March 31, 2008, which is where you pulled your summary from to put in your report, correct? A. So this is March Q. 31st, 2008. A. 31st, 2008, all right, and it's
2 3 4 5 6 7 8 9 10	described of more contraction and all that was occurring, that Ms. McBrayer's pain was actually not changing at all? A. It can have different patterns, but the progressive nature can be explained morphologically. But it will not change my opinions if it's progressive or if it's intermittent. There are multiple ways how it can present. And the presentation would be more expertise of urogynecologist. I can explain how progressive nature can be caused by the	2 3 4 5 6 7 8 9 10	graft were palpable." Do you see that? A. I do. Q. If you take a look at the record that I've just handed you in Exhibit 4 from March 31, 2008, which is where you pulled your summary from to put in your report, correct? A. So this is March Q. 31st, 2008. A. 31st, 2008, all right, and it's seven months after implantation.
2 3 4 5 6 7 8 9 10 11	described of more contraction and all that was occurring, that Ms. McBrayer's pain was actually not changing at all? A. It can have different patterns, but the progressive nature can be explained morphologically. But it will not change my opinions if it's progressive or if it's intermittent. There are multiple ways how it can present. And the presentation would be more expertise of urogynecologist. I can explain how progressive nature can be caused by the morphological changes.	2 3 4 5 6 7 8 9 10 11 12	graft were palpable." Do you see that? A. I do. Q. If you take a look at the record that I've just handed you in Exhibit 4 from March 31, 2008, which is where you pulled your summary from to put in your report, correct? A. So this is March Q. 31st, 2008. A. 31st, 2008, all right, and it's seven months after implantation. Q. The chief complaint there is
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	Page 58		Page 60
1	summary on your page 3, you have that section, the	1	this record when you were responding to one of my
2	buttock area.	2	earlier questions but, in any event, you have an
3	Then the next sentence which you don't	3	entry for December 22, 2008, on your report, on
4	include in your summary:	4	page 4?
5	"This pain has been long-	5	A. Yes.
6	standing and predated her surgery,	6	Q. Do you see that?
7	which was performed in July and	7	A. I do.
8	included a grafted posterior	8	Q. Okay. And in your summary on
9	repair and enterocele repair."	9	page 4, you have:
10	Is there a reason why you did not	10	"The record indicated that Ms.
11	include that?	11	McBrayer reported having some pelvic
12	A. I could not include everything. I	12	floor pain and mild dyspareunia,
13	just include specific data points related to the	13	using pain medication a couple
14	specimen I receive.	14	times a month. Digital examination
15	Q. Before today, did you know the	15	revealed mild tenderness at the
16	record said that?	16	proximal vagina with a palpable
17	A. Pardon?	17	scarring secondary to graft."
18	Q. Before today, did you know that	18	Do you see that?
19	portion of the record mentioned that her pain long	19	A. I do.
20	predated her surgery?	20	Q. If you turn to Exhibit 5, would
21	A. I read the record so it's there.	21	you agree this is the record from which you're
22	As I said, I cannot include everything. I try to	22	basing your description on page 4?
23	include only information which is directly	23	A. It looks like it, yes.
24	pertinent to the specimen I received.	24	Q. Okay. And under the history of
	Page 59		Dama (1
	<u> </u>		Page 61
1		1	
1 2	Q. Did you consider that her pain has	1 2	let's start with, the reason for office visit says
	Q. Did you consider that her pain has been longstanding and predated her surgery when	2	let's start with, the reason for office visit says "Vaginal pain," correct?
2	Q. Did you consider that her pain has been longstanding and predated her surgery when coming to your clinicopathological correlation?	2 3	let's start with, the reason for office visit says "Vaginal pain," correct? A. Yes.
2 3 4	Q. Did you consider that her pain has been longstanding and predated her surgery when coming to your clinicopathological correlation? A. I did, but the pre and post-	2 3 4	let's start with, the reason for office visit says "Vaginal pain," correct? A. Yes. Q. Under the "History of present
2	Q. Did you consider that her pain has been longstanding and predated her surgery when coming to your clinicopathological correlation? A. I did, but the pre and post-clinical differential diagnosis is not specifically	2 3	let's start with, the reason for office visit says "Vaginal pain," correct? A. Yes. Q. Under the "History of present illness," the third line down, it starts:
2 3 4 5	Q. Did you consider that her pain has been longstanding and predated her surgery when coming to your clinicopathological correlation? A. I did, but the pre and post-clinical differential diagnosis is not specifically my role in this case. I'm basing my opinion on	2 3 4 5 6	let's start with, the reason for office visit says "Vaginal pain," correct? A. Yes. Q. Under the "History of present illness," the third line down, it starts: "She reports she is doing well,
2 3 4 5 6	Q. Did you consider that her pain has been longstanding and predated her surgery when coming to your clinicopathological correlation? A. I did, but the pre and post-clinical differential diagnosis is not specifically my role in this case. I'm basing my opinion on clinical differential diagnosis work-up done by the	2 3 4 5 6 7	let's start with, the reason for office visit says "Vaginal pain," correct? A. Yes. Q. Under the "History of present illness," the third line down, it starts: "She reports she is doing well, having some mild dyspareunia,
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Page 62 Page 64 1 A. I thought we agreed I do not do 1 the decision to excise the specimen at the time of 2 clinical differential diagnosis pre and post. It's 2 excision. I'm not doing clinical differential 3 3 already done by somebody else. I simply state the diagnosis. And I'm not saying -- if we look at 4 4 facts in the chronology, what she's experiencing. this entry --5 The comparison pre and post is not my 5 (Reporter sought clarification.) 6 role here. It's the role of urogynecologist. 6 A. Let me correct it. 7 Q. Do you consider in any way whether 7 So when we look at the entry, 8 her symptoms changed? 8 December 22nd, 2008, so I'm saying Ms. McBrayer 9 9 A. I see it in the records, but I reported having some pelvic floor pain and mild 10 leave it to urogynecologist to compare. Change, 10 dyspareunia, and I'm not giving any description of 11 not change. Because pain and dyspareunia can be 11 what is the cause for it. I'm leaving it open to 12 caused by multiple factors, and urogynecologist can 12 the clinicians. 13 determine if the causes are different pre and 13 I'm not saying that it's due to preexistent causes and I'm not saying that it's due 14 postimplantation. People have pain from 14 15 15 different -- for different reasons. to mesh, because there is no decision at that time. 16 16 I cannot examine the patient. I cannot So I just leave it completely neutral, without 17 17 explanation of the causes, because that was my take history, so -- if I see that the mesh is 18 excised specifically for pain and dyspareunia, then 18 impression during the review of the records, that 19 I examine the specimen and I explain the symptoms. 19 the clinical differential diagnosis is not 20 20 Q. Okay. Let's go to your summary on completed yet. 21 21 page 4, February 26, 2009, Carolinas Medical So this is completely neutral statement 22 Center. You mentioned that your review of the 22 of what she's experiencing during that visit 23 record showed her symptoms were progressively 23 without giving any explanation of what is the 24 worse. Do you recall that testimony? 24 Page 63 Page 65 1 1 And the same for other entries. When A. Well, summary description, what I 2 see in the records. 2 there is no completed differential diagnosis, I 3 3 don't mention the cause, and when the differential Q. And we've just gone through two 4 records that mention her pain has -- the last one diagnosis is completed and the decision is made to 5 5 we said, overall slightly improved and it's pelvic excise the mesh, then I provide it in the summary. 6 6 Because this becomes directly relevant to my floor pain and discomfort that preceded her prior 7 7 surgery. specimen. 8 8 And now less than a year later, we're Q. Dr. Iakovlev, when the physicians 9 going to the February 26, 2009 record, where it 9 made the decision to remove a portion of the mesh 10 10 on April 3, 2009, is it your testimony that their states: 11 "Pain has been stable not 11 differential diagnosis was that the entire mesh was 12 12 causing her pain? worsening over the last year." 13 Do you see that in your report on 13 A. You have to ask them if their 14 14 opinion was -- well, you have to ask first treating 15 A. Which entry is it? 15 physician and urogynecologist expert what would be 16 Q. February 26, 2009. 16 their opinion regarding if it's a part of the mesh 17 17 or entire mesh, and I'm just giving you a A. Yes. 18 18 Q. Okay. How do your morphological morphological correlation. 19 findings explain that the pain was not worsening? 19 Q. Doctor, aren't you also basing 20 A. It's not related to the --20 your opinion on the assessment that those doctors 21 21 made on April 3rd, 2009? I think you just told me morphological findings is not explaining the 22 pattern of changes during the course of her, well, 22 that. 23 disease or complications. As I said, I am 23 A. Well, their conclusions.

Q. And their conclusion was to remove

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24

correlating it with the specimen I receive, with

Page 66 Page 68 1 the eroded portion of the mesh and to leave the 1 at the clinical summary. 2 remainder in, correct? 2 So when I screen the records, I extract 3 3 A. That's correct. all information which is relevant, including 4 Q. By February 26, 2009, where the 4 preexisting conditions, including preexisting 5 exposure is first noted in your summary, that would 5 symptoms, background medical and history. So you 6 have been well over a year after the implantation 6 can see here background medical history: 7 7 procedure that occurred on July 30, 2007? Hypertension, gastroesophageal reflux disease; 8 A. All right. Let me see again. So 8 surgical history: breast reduction. 9 9 she gets implantation one more time, so she's being And then I screen for urogynecological 10 implanted in August 2007. And then --10 history, and I include all facts or at least 11 Q. Then we go to February 26, 2009; 11 summary of them, some landmarks or milestones. 12 you'd agree that's more than a year? 12 Now, if we go through the entries, for 13 13 example, there are several entries predating the A. Yes, more than a year. 14 Q. Okay. And you've testified many, 14 mesh implantation, actually quite a number of 15 15 many, many times that the scarring and contraction entries predate, and there is history of pelvic 16 16 that occurs in mesh is well established by a year, pressure, pain, protrusion, which are symptoms of 17 17 prolapse. Stress-type incontinence. So all of 18 A. Most. Well, I mean, yes. I mean, 18 these preexisting conditions are listed here. I'm 19 there will be -- the initial scar will be 19 not ignoring them. 20 20 established by -- within first year. However, the There is another entry in May 2007, 21 21 continuous damage of the tissue will cause more progressive pelvic pressure, protrusion, some deep 22 scarring. So this will be added on and on and on. 22 pelvic dyspareunia, which she had for many, many 23 So if there is no clinical implication during the 23 years. Again, I'm not ignoring it. 24 first year, later developments and polypropylene 24 And then we move on and then I can see Page 67 Page 69 1 degradation may tip the scale and cause the 1 that she's been worked up for the surgery. Again, 2 symptoms. 2 I'm including it. And then there is a description 3 Q. So looking at the pathology 3 of the surgery itself. And this is one of the key 4 specimen you received in Ms. McBrayer's case, are facts for me as a pathologist, because I need to 5 5 you able to tell us whether these changes occurred know the origin of the specimen. So in this case, 6 before a year, after a year, two years later, when 6 I need to know what was implanted and where it was 7 did these changes occur in the tissue? 7 implanted. 8 8 A. They are continuous. Some of it And then I can see the symptoms and I 9 is what was occurring during first weeks or month, 9 just list these symptoms and I see that the 10 and some of it will be addition to those changes in 10 clinicians are working the differential diagnosis. 11 later month. 11 I mean, there is some uncertainty and I just 12 MR. SNOWDEN: Can we take a quick 12 neutrally list whatever symptoms she had. And when 13 break? 13 there are firm conclusions of these symptoms, I 14 14 -- RECESS AT 10:31 -include them in the clinical summary. 15 15 -- UPON RESUMING AT 10:42 --And then finally when there is final 16 BY MR. SNOWDEN: 16 steps of the clinical differential diagnosis, when 17 17 the clinician could compare pre and post and Q. Dr. Iakovlev, we've been talking 18 about some of the records from Ms. McBrayer's case. 18 examine patient and do investigations, their 19 And I just want to understand the clinico part of 19 decision becomes to excise the mesh. Again, this 20 your clinicopathological correlation. 20 would be another key fact for me, key entry. 21 21 For the clinico portion of your The clinical differential diagnosis 22 clinicopathological correlation, what do you rely 22 work-up culminated in mesh excision, including all 23 upon? 23 those preexisting condition, concurrent condition 24 A. All right. So let's have a look 24 and anything else she might be experiencing, along

Page 70 Page 72 1 1 with the reasons for mesh excision. their indication for the mesh excision. 2 And when the mesh gets excised, then 2 Their decision was to excise the mesh. 3 3 I'm answering the questions or the reasons why it So I'm answering that question, what was wrong with 4 became excised. I'm answering it using my the area which became excised. 5 5 morphological differential diagnosis. I'm not Q. In this case are you able to 6 6 performing the clinical differential diagnosis. provide an opinion on any potential changes in the 7 7 Q. In this case are you going to quality, intensity, location of the pain that you 8 8 offer the opinion that Ms. McBrayer's pain was would attribute to the mesh? 9 caused by the mesh? 9 A. No. This would be beyond my 10 10 A. So, the pain which was attributed scope. That's area of urogynecologists. They can 11 to the mesh clinically, and which triggered mesh 11 examine the patient, they can take precise history, 12 excision, was caused by the mesh. She may have 12 compare the records, assess the quality of the 13 different types of pain, headaches, some 13 records and assess the quality of assessments, 14 fibromyalgia. I'm not attributing all possible 14 because providers can be wrong. So that's all area 15 15 pains in this patient. I'm attributing specific of expertise of the urogynecologists. 16 16 symptoms which were attributed to the mesh Q. Doctor, in this case are you 17 clinically, and then I correlated or provide an 17 offering any opinions regarding any complications 18 answer how this was caused and by what pathological 18 involving the bowel or constipation? 19 changes. And in this case, as with other cases, 19 A. (Witness reviews document). 20 the pathology was the mesh itself, and the tissue 20 I don't see exact work-up, clinical 21 21 reaction to it. It wasn't a natural disease, like work-up in the records I examined regarding that 22 a fumor 22 issue. However, knowing that it's posterior 23 Q. Which pain was attributed to the 23 Prolift device and it's still there, she's at risk 24 24 mesh? of mesh migrating and affecting the -- and we've Page 71 Page 73 1 A. Oh, you mean --1 seen several cases how it happens up to obstruction 2 Q. Which pain in this case? You have 2 of the fecal outflow. So she's at risk if she's 3 said you're not considering headaches, you're not 3 experiencing or she will experience; I cannot 4 considering other things. So which pain are you 4 attest to that. 5 5 attributing to the mesh? Q. So she may be at risk, but do you 6 A. Let's see how it's described 6 have any opinion in this case that the mesh is 7 clinically. (Witness reviews document). So in 7 causing those complications at this time? 8 8 this case it's called vaginal pain. Yeah, this is A. No, I don't know. Because I am 9 9 logical, that's where the mesh was placed. not a urogynecologist, I cannot examine the patient 10 Q. Okay. And that differential that 10 or take the history. 11 you're referring to was on April 3rd, 2009? 11 But based on my knowledge and 12 12 A. Not differential, this was the experience, and the opinions described in the 13 conclusion of the differential diagnosis. 13 general report, and appearance of on examining the 14 14 Q. Okay. And, Doctor, how do you specimens, and you've seen it during these 15 15 differentiate between that vaginal pain that you're depositions, that posterior Prolift device can 16 referring to and her longstanding history of 16 cause or any posterior mesh can cause complications 17 17 dyspareunia, vaginal and rectal pain that predated in the rectum. 18 18 her surgery, which has not improved significantly Q. Do you have any opinions in this 19 which the clinicians found on the same -- wrote on 19 case -- are you going to offer an opinion in this case that the mesh caused any symptoms in the 20 the same day that they explanted the mesh? 20 21 21 A. I do not differentiate clinical pelvic floor musculature? 22 22 symptoms because pain, dyspareunia can be A. This is a question for 23 23 multifactorial. I leave this part to the urogynecologists. And I can tell you that changes 24 urogynecologists. I am answering their question or 24 which are within the mesh are trigger for pain, and

s can spread further into and trigger a muscle intraction. But more detailed mechanisms would be area of urogynecologists. Q. And in this case you wouldn't be let to tell us how far the mesh specimen you viewed was from any muscle? A. It doesn't have to be in contact. you have a trigger for pain, many adjacent uscles will start contracting as a reaction to in. It's known in many parts of the body. There is a one-point trigger pain, but then the pain reads, or feeling of the pain spreads over larger ea, and then muscles start contracting, going rough this cycle, pain and contraction, more intraction. Then there is pain in the muscle, and ean it triggers more contraction; like pain after deep stone. You have a trigger here, muscle intracts around the kidney stone, and the pain is tually caused not by the stone itself but the intraction of the muscle around it. Q. And, Doctor, on page 7 of your	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. ZIMMERMAN: I don't have any questions on Ms. McBrayer. Mandy, you don't have any questions, do you? MS. ROBINSON: Not at this time. MR. ZIMMERMAN: Thank you very much. Whereupon the deposition concluded at 10:57 a.m.
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Q. And, Doctor, on page 7 of your	21	
oort, just above your pain section you have:	22	
"Overall Ms. McBrayer had some	23	
preexistent pelvic pain symptoms	24	
Page 75		Page 77
with which she lived for 17 years	1	REPORTER'S CERTIFICATE
not requiring surgical treatment.	2	
After the Prolift mesh was placed,	3	
the clinical course changed. There	4	I, JUDITH M. CAPUTO, RPR, CSR, CRR,
was a progressive development of new	5	Registered Professional Reporter, certify;
symptoms and the clinical	6	That the foregoing proceedings were
investigations lead to mesh excision	7	taken before me at the time and place therein set
less than two years after mesh	8	forth, at which time the witness was put under oath
placement."	9	by me;
Do you see that?		That the testimony of the witness and
A. That is correct.		all objections made at the time of the examination
Q. I think we've been over this, but		were recorded stenographically by me and were
ust want to confirm. Are you going to offer		thereafter transcribed at my direction;
inions as to which new symptoms occurred?		That the foregoing is a true and correct transcript of my shorthand notes so taken.
A. This will be area of		correct transcript of my shorthand notes so taken.
ogynecologist and treating physicians. Some new		
mptoms, well, pain and dyspareunia, but we agreed		
at pain and dyspareunia is a group of symptoms,		Dated this 16th day of March, 2016.
		Dated and Tour day of Match, 2010.
multifactorial. But those pain and dyspareunia		
multifactorial. But those pain and dyspareunia nich were attributed to the pain to the mesh,		
nich were attributed to the pain to the mesh,		
nich were attributed to the pain to the mesh, by triggered the excision.		PER: JUDITH CAPUTO, RPR, CSR, CRR
i	Do you see that? A. That is correct. Q. I think we've been over this, but ust want to confirm. Are you going to offer inions as to which new symptoms occurred? A. This will be area of ogynecologist and treating physicians. Some new inptoms, well, pain and dyspareunia, but we agreed it pain and dyspareunia is a group of symptoms, multifactorial. But those pain and dyspareunia ich were attributed to the pain to the mesh, by triggered the excision.	Do you see that? A. That is correct. Q. I think we've been over this, but ust want to confirm. Are you going to offer inions as to which new symptoms occurred? A. This will be area of orgynecologist and treating physicians. Some new onptoms, well, pain and dyspareunia, but we agreed t pain and dyspareunia is a group of symptoms, multifactorial. But those pain and dyspareunia ich were attributed to the pain to the mesh, yo triggered the excision. MR. ZIMMERMAN: It's time.

20 (Pages 74 to 77)

	Page 78	Page 80
1	CERTIFICATE OF REPORTER	1
2	CANADA)	ERRATA
3	PROVINCE OF ONTARIO)	2
4	,	3
5	I, Judith M. Caputo, the officer before whom the	4 PAGE LINE CHANGE
6	foregoing deposition was taken, do hereby certify	5
7	that the witness whose testimony appears in the	6 REASON:
8	foregoing deposition was duly sworn by me; that the	7
9	testimony of said witness was taken by me in	8 REASON:
10	shorthand, using Computer Aided Realtime, to the	9
11	best of my ability and thereafter reduced to	10 REASON:
12	written format under my direction; that I am	11
13	neither counsel for, related to, nor employed by	12 REASON:
14	any of the parties to the action in which the	13
15	deposition was taken, and further that I am not	1
16	related or any employee of any attorney or counsel	16 REASON:
17	employed by the parties thereto, nor financially or	1 17
18	otherwise interested in the outcome of the action.	17
19		
20		20 REASON:
21	Judith M. Caputo, RPR, CSR, CRR	21
22	•	22 REASON:
23	Commissioner for taking	23
24	Oaths in the Province of Ontario	24 REASON:
	Page 79	Page 81
1		
1	INSTRUCTIONS TO WITNESS	
		1
2	Dead arrange description arrange falls	2 ACKNOWLEDGMENT OF DEPONENT
3	Read your deposition over carefully.	2 ACKNOWLEDGMENT OF DEPONENT 3
3 4	It is your right to read your deposition and make	2 ACKNOWLEDGMENT OF DEPONENT 3 4 I,, do
3 4 5	It is your right to read your deposition and make changes in form or substance. You should assign a	2 ACKNOWLEDGMENT OF DEPONENT 3 4 I,, do 5 hereby certify that I have read the
3 4 5 6	It is your right to read your deposition and make changes in form or substance. You should assign a reason in the appropriate column on the erratum	2 ACKNOWLEDGMENT OF DEPONENT 3 4 I,, do 5 hereby certify that I have read the
3 4 5 6 7	It is your right to read your deposition and make changes in form or substance. You should assign a reason in the appropriate column on the erratum sheet for any change made.	2 ACKNOWLEDGMENT OF DEPONENT 3 4 I,, do 5 hereby certify that I have read the 6 foregoing pages, and that the same is
3 4 5 6 7 8	It is your right to read your deposition and make changes in form or substance. You should assign a reason in the appropriate column on the erratum sheet for any change made. After making any changes in form or	2 ACKNOWLEDGMENT OF DEPONENT 3 4 I,
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	It is your right to read your deposition and make changes in form or substance. You should assign a reason in the appropriate column on the erratum sheet for any change made. After making any changes in form or substance, and which have been noted on the following erratum sheet, along with the reason for any change, sign your name on the erratum sheet and date it. Then sign your deposition at the end of Your testimony in the space provided. You are signing it subject to the changes you have made in the erratum sheet, which will be attached to the deposition before filing. You must sign it in	ACKNOWLEDGMENT OF DEPONENT I
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21 (Pages 78 to 81)